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CENTRAL INTELLIGENCE GROUP

INTELLIGENCE REPORT

COUNTRY Yugoslavia

SUBJECT Whitehead Torpedo Factory

ORIGIN

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A. General

1. In 1946, by action of WUJA (Military Administration of the Yugoslav Army, comparable in function to AMG), the Whitehead Torpedo Factory in Fiume was converted into a nationalized "Kombinat" along with five other industrial plants which were determined to be of "national importance". This "Kombinat", and consequently the industrial plants which comprised it, came under the direct control of the Ministry of Industry.
2. In February 1947, by order of the Belgrade Government, the Torpedo Factory was separated from the "Kombinat", and passed into the jurisdiction of the Department of the Navy of the Federal Ministry of National Defense.

B. Activities of the Torpedo Factory during 1945 and 1946

1. Work was begun on the repair and adaptation of some thirty aerial torpedoes to naval use, as well as the completion of seventy unfinished torpedoes which were on hand as of 1 May 1946.
2. Machinery in the plant was repaired and rebuilt.
3. Production was begun on various utensils and tools for agriculture, workshops, and industrial plants. Petroleum lamps and the first models of a pneumatic hammer and of a marine Diesel engine were also produced.
4. During the period from May through December 1945 the Torpedo Factory produced or rebuilt goods to a total value of 36,000,000 lire and expended 25,500,000 lire on reconstruction. In the period from January through June 1946 the value of manufactured and rebuilt goods totalled 87,400,000 lire. The total spent on reconstruction was 41,585,000 lire. In the same period, new machinery in the value of 7,000,000 lire was acquired, which machinery included some forty lathes, drills, milling machines, and motors. From July through December 1946, the Factory produced or rebuilt materials to a total value of 52,000,000 lire, expending 45,000,000 lire for reconstruction.
5. Among the principal customers of the Factory during the foregoing periods were:

Martinsnica Shipyards
Kraljevice Shipyards

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Cantieri Navali del Quarnero (Fiume)
 NOO (Fiume)
 Main Shipyards Administration at Fiume
 Main Iron Enterprise at Zagreb
 1st KNOJ Division
 Yugoslav Navy
 Rear Hqs. of Fourth Army
 Rear Hqs. of Second Army
 Hqs. of Navy School
 Technical Equipment Depot of Fourth Army
 Mining Section - P.O.K.
 People's Defense Section
 People's Committee at Susak
 Military Hospital #1 of Fourth Army
 People's Defense, Regional
 Chamber of Commerce at Split
 District National Liberation Committee (Split)
 Technical Section, Navy Coast Command
 Mobile Workshops
 Navy Command, Northern Adriatic
 Merchant Marine Academy
 ROMSA (Fiume)
 Staff Proletarian Division (Fourth Army)
 Smith & Meyner (Susak)
 Tipografia del Popolo (Fiume)
 Technical Section PKST
 Main Auto Workshop of Fourth Army
 Vulkan Navy Mechanical Workshop, Branch of RR Inspectorate, Zagreb
 SPOM Central Workshop

C. Status as of 1 January 1947

1. Financial: The Factory is operating at a monthly deficit of 3,500,000 lire, which is made up by government grants. Payment of salaries and wages has frequently been postponed several days because of the complete lack of funds.
2. Personnel:
 - (a) Engineers: Ing. Mania, Technical Director (Italian)
 Ing. Filaus (Croat)
 Ing. Staimbak (Croat)
 - (b) Technicians: Approximately 15, nearly all awaiting repatriation to Italy
 - (c) White-collar workers: Approximately 90, of whom 50 are awaiting repatriation to Italy.
 - (d) Workmen: During 1946 the figure increased from 1,200 to 1,500, but the number of specialists fell from 400 to 270. The majority of the new workmen have no technical experience. Three classes of apprentices, with some 150 students, have been instituted in the Factory.
3. Industrial Activity:
 - (a) A department comprising 350 workmen is devoted to the repair of motor vehicles and freight cars of wooden and steel construction. Forty-five to fifty motor vehicles and fifteen freight cars are completed monthly.
 - (b) 280 workmen in the torpedo department are engaged in the rebuilding and completion of torpedoes which were on hand and in process at the Factory in May 1945. An average of two torpedoes is completed weekly, although this output is to some extent dependent upon the weather, i.e., whether or not it is favorable for sea tests.
 - (c) The remainder of the Factory, with 600 workmen, is devoted to the manufacture of such various types of equipment as welding tools, lathes, railway switches, plows, Diesel engines, pneumatic hammers and drills, compressors, and winches.

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C. Condition of Facilities

1. Shed used as a warehouse by the Yugoslav Navy.
2. Torpedo Department. Shed which is completely repaired except for the side facing the sea and which has no glass in the windows:
 - Section for repair and rebuilding of torpedo motors
 - Section for assembly of torpedo motors
 - Section for welding and sealing
 - Section for motor testing
 - Section with drills and balancing platforms for assembly of torpedoes
3. Department for repair of vehicles and railroad cars:
 - Section for welding and soldering
 - Section with three drills for various operations
 - Auxiliary warehouse
 - Section for motor testing
 - Section with two electric and two oil furnaces for heating processes
 - Section with two large hammers for metalworking
 - Section for mechanical work which has about fifty machines and eighty workmen who work in two shifts of eight hours each.
 - Tool shop
 - Electric plant with four generators and two compressors. Normally the factory functions on electric power supplied from outside sources.
4. Department for mechanical processes in a three-story building:
 - Ground floor: Storage of finished goods (30 workmen)
 - Second floor: Workshop with 20 machines (lathes, drills, milling machines, and electric saws) and 70 workmen
 - Third floor: Workshop with 15 machines and 30 workmen
5. Garage and automobile workshop for factory vehicles (15 workmen and drivers)
6. Dining hall, offices, and workshop in a three-story building:
 - Ground floor: General dining hall, kitchens, porter's residence
 - Second floor: Management and offices with 90 employees
 - Third floor: Workshop with eight machines and 25 workmen
7. Factory garage and gasoline storage.
8. Pier with two torpedo-tubes for testing. The tests are checked from a series of pontoons anchored in the Gulf of Quarnero. At present torpedoes are tested at first and second ranges, i.e. 2,000 and 4,000 meters. There is also an elevated platform with catapult for launching aerial torpedoes which has been cannot be used because of defective construction.
9. Experimental Department (old name) in a three-story building:
 - Ground floor: Storage of basic materials and small workshop
 - Second floor: Workshop with 20 machines and 55 workmen under the direction of Engineer Staimbak. Models for new products are designed and built here. In 1946 a pneumatic hammer and a Diesel marine engine for fishing boats were developed.
 - Third floor: Drafting room in preparation.
10. Roofless and damaged hangar, formerly used by Italian Naval Aviation Corps. The open part is used as a storage dump for salvaged metal. The covered part is used as a shop for production of railroad switching device parts, especially "K"-type track sections. There are six machines and 50 workmen.

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11. Open dump of materials which contains a foundry and chrome-plating section with 95 workman.
12. Foundry section with 45 workmen.
13. School for torpedomen of the Yugoslav Navy with 45 sailor students.
14. Boiler shop with seven oil and electric furnaces and 70 workmen.

E. Projects for 1947

1. Since the resumption of torpedo manufacture is not regarded as possible before the middle of 1948, the Factory has been assigned the following production schedule for 1947 by the Belgrade Government:

<u>Quantity</u>	<u>Item</u>	<u>Unit Price</u>
3000	Welding tools	24,000 lire
3000	Oxygen valves	1,315 lire
100	Lathes	170,000 lire
3000	Electricians' pliers	665 lire
800	Wedge-shaped pieces for railroad crossings	25,000 lire
3000	Oxygen reducers	5,000 lire
1000	Plows	7,700 lire
120	Diesel engines - 8 HP	184,000 lire
10	Diesel engines - 200 HP	4,325,000 lire
10	Cylinders for paper mills	2,195,000 lire
500	Pneumatic hammers	5,000 lire
200	Pneumatic drills	19,000 lire
50	Compressors (7 atmospheres)	140,000 lire
10	"Laviatan" washing machines	8,270,000 lire
10	Compressors (200 atmospheres)	481,000 lire
10	Winches	229,000 lire

2. It is believed, however, that the foregoing schedule, which projects a total production of some 16,000,000 lire worth of finished goods, will be considerably reduced. Already, in fact, production of plows, pliers, 200 HP Diesel engines, 7 A.M. compressors, and "Laviatan" washing machines (believed for washing wool), has been suspended.

F. Reconstruction Program for 1947

1. Completion of repairs to various workshops and acquisition of new equipment for workshops.
2. Acquisition of equipment for offices and drafting room.
3. Rebuilding of piers, quays, and embankments, and repair facilities with new equipment.
4. Repair and enlargement of warehouse space.
5. Estimated expenditures for 1947 are 104,000,000 lire.

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